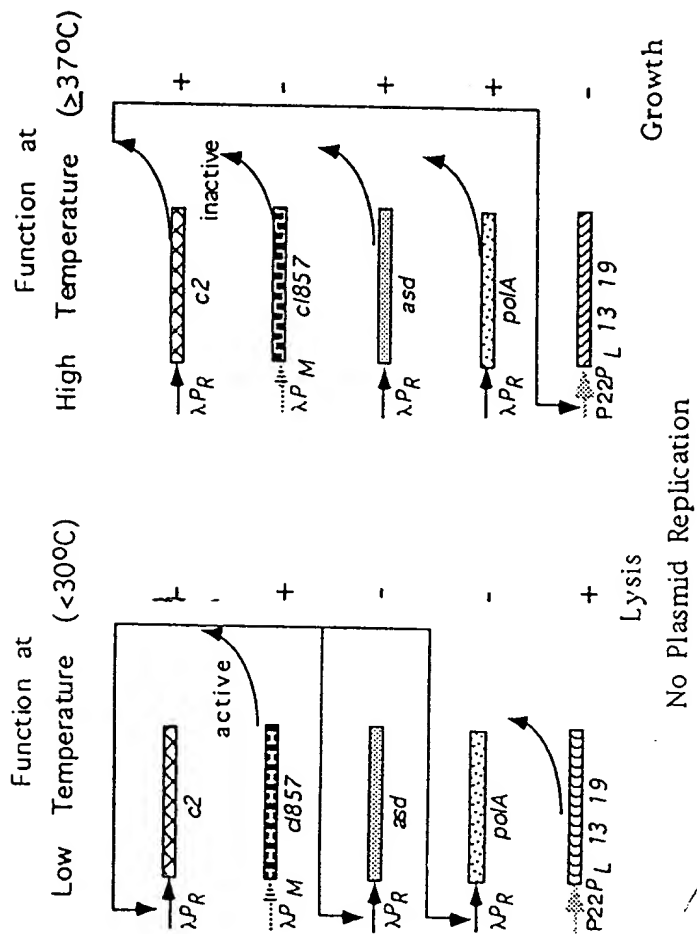
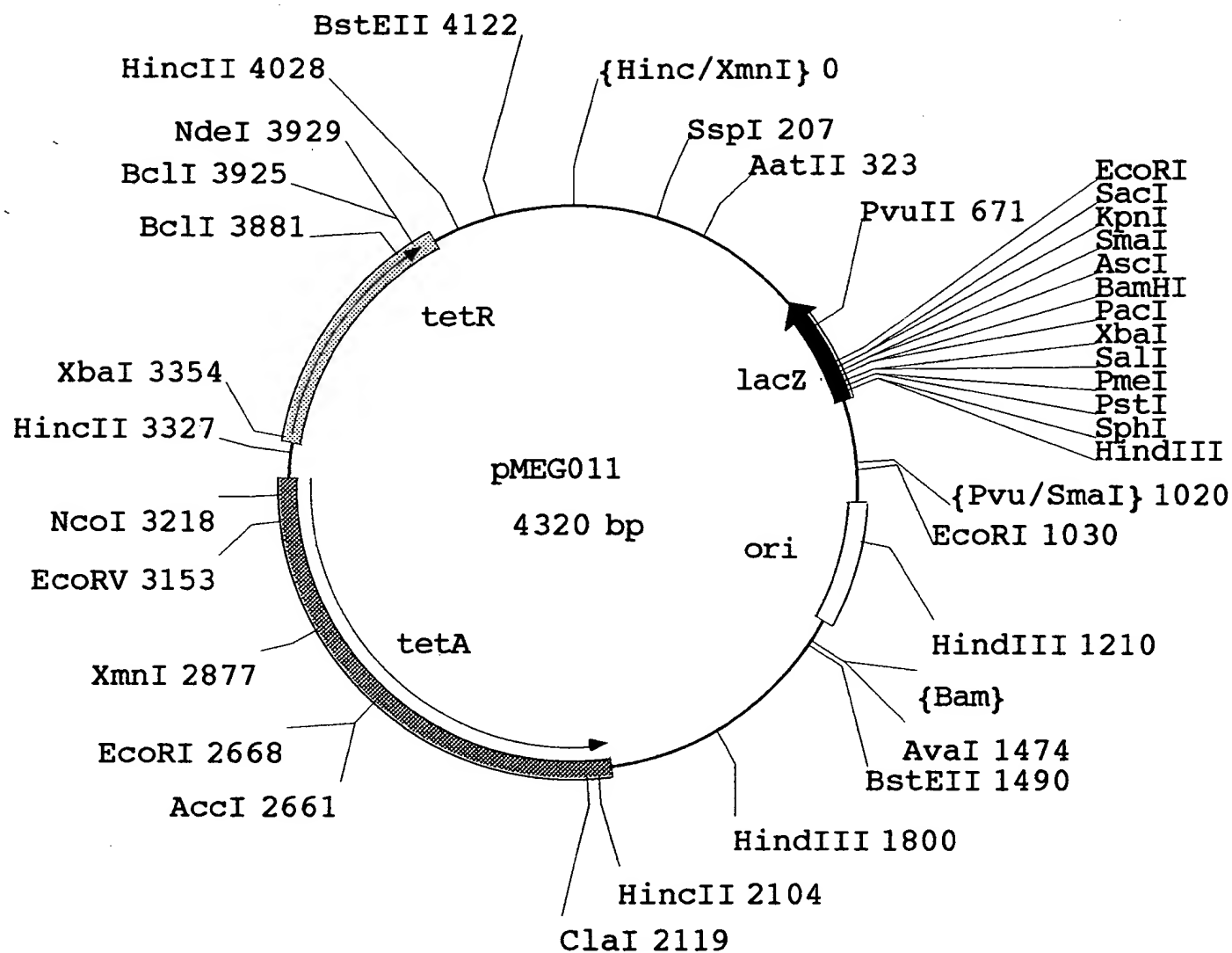
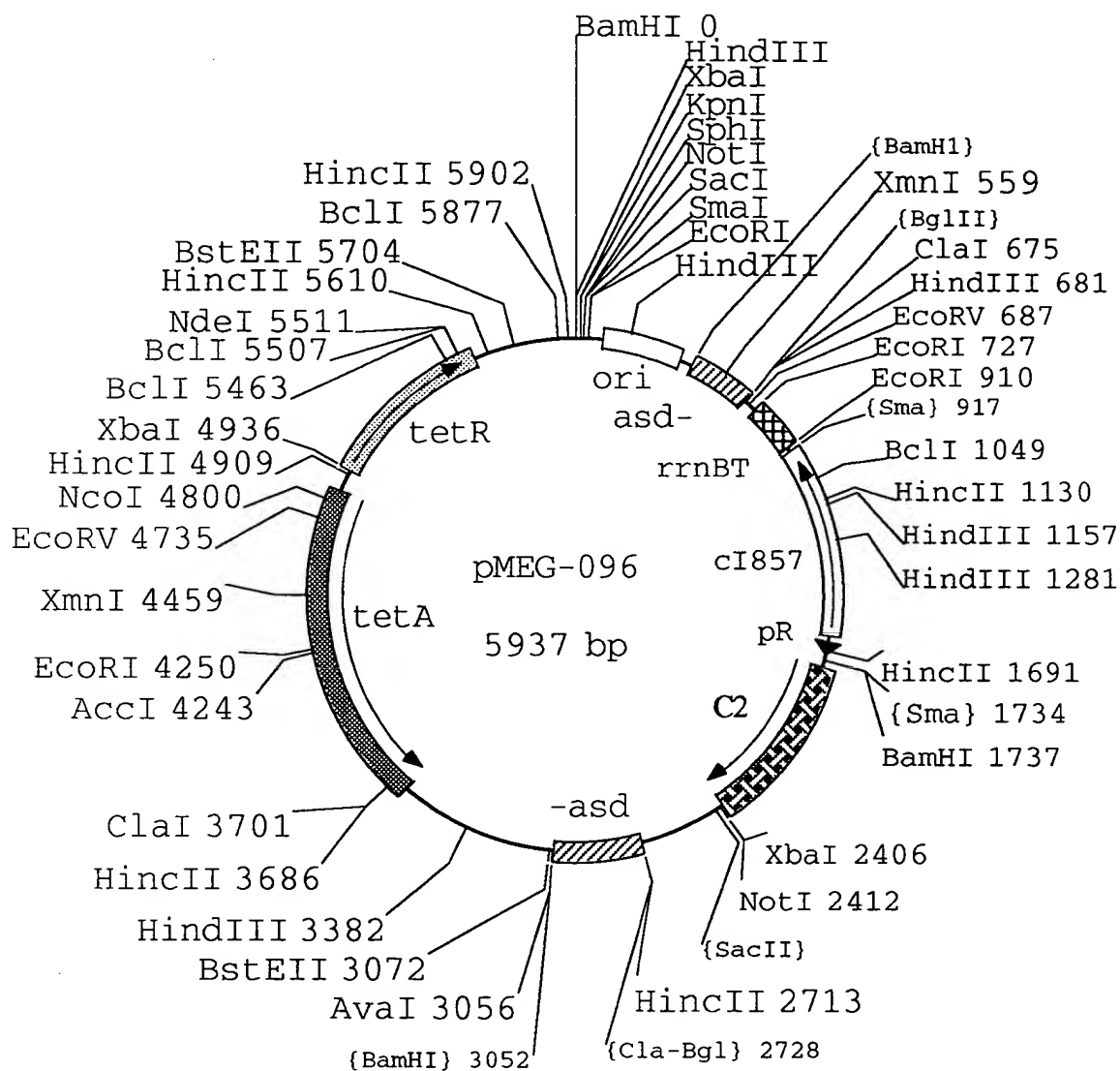


Figure 1





**Figure 2**  
A *pir*-dependent suicide vector



**Figure 3**

A *pir*-dependent suicide construct for insertion of the *P<sub>R</sub>* driven *c2* gene and *cI857* repressor into the *S. typhimurium asd* gene on the chromosome.

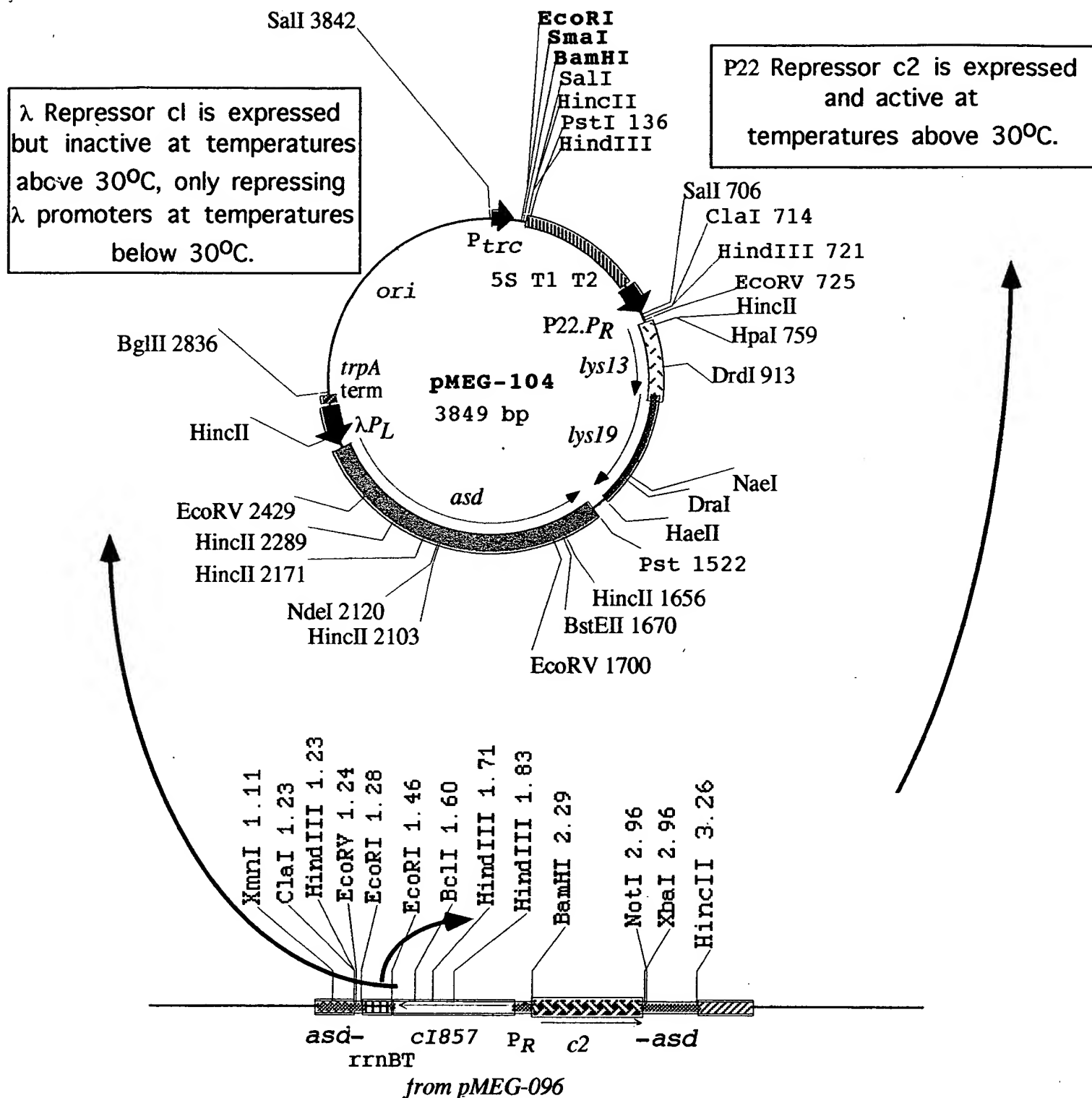
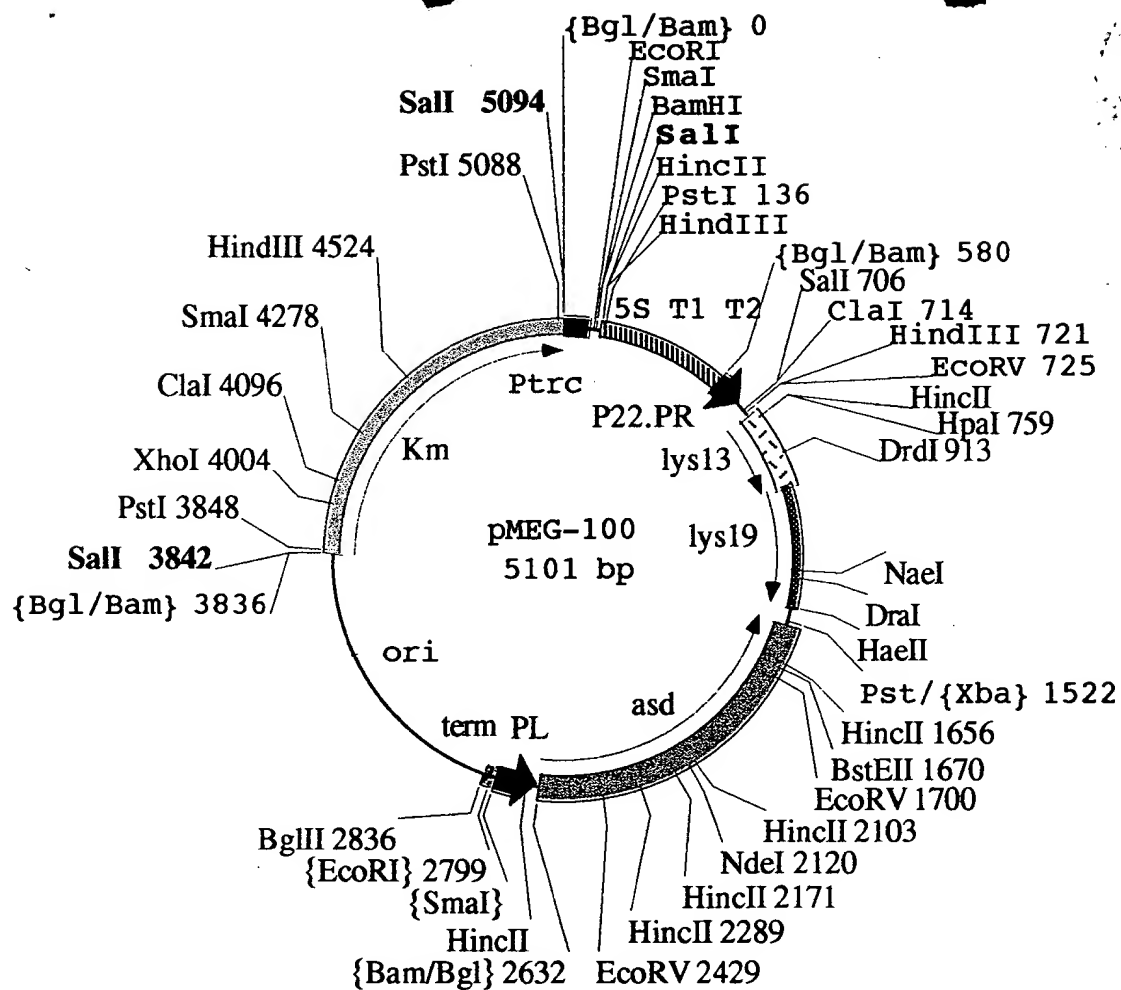


Figure 4

The Environmentally Limited Viability Components in the *S. typhimurium* Strain MGN-417



**Figure 5**

The ELVS expression vector intermediate.

Figure 6  
Growth of *S. typhimurium* Environmentally Limited Viability Construct  
Relative to Normal *S. typhimurium* with Asd+ Vector

